

IBIS-Q Tutorial: Producing a Map

The screenshot shows a web browser window displaying the 'IBIS-PH Custom Query Main Page'. The browser's address bar shows the URL: <http://ibis.health.utah.gov/view?xml=query/home.xml&xslt=query/home.xslt>. The page features a navigation menu on the left with categories like 'Population Estimates', 'Birth & Infant Death', 'Mortality', 'Hospital & Emergency Department', 'Health Surveys', 'Cancer Registry', 'Injury', and 'Help'. The 'Hospital & Emergency Department' category is expanded, showing sub-options: 'Inpatient Hospital' and 'Emergency Department'. The main content area includes a 'Welcome' message, a 'User Help' section, and contact information for the Center for Health Data. An orange callout box on the right contains the text: 'To produce a map from the IBIS query system, begin just as you would any other query. In this example, we'll use the Hospital Inpatient dataset.'

Novell WebAccess (Lois Haggard) IBIS-PH Custom Query Main Page

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Utah Department of Health General Mailing Address: PO Box 141010, Salt Lake City, UT 84114-1010

IBIS-PH Utah's

IBIS-PH Home Indicator Profiles Custom Query

IBIS-PH Custom Query Main Page

Click [here](#) to view the list of tutorials available for

Welcome
Welcome to the IBIS-Q interactive query system. This system allows you to view and analyze health data sets directly. The information is intended for use by health care providers to plan and improve service delivery. Other uses are not permitted.

User Help
Use the HELP button at the left for a menu of instructions and examples. Help buttons throughout the query modules also provide information necessary to make specific query-related selections.

**Center for Health Data, Utah Department of Health, Salt Lake City, UT 84114-2101,
Phone: 801-538-9191**

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Done

IBIS-PH Inpatient Hospital Discharge Query Module for Utah Counties, Local Health Districts and - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://localhost/Query?request=SHOW_SELECTION&name=hddb/HDDbSelection#sel Go

Population Estimates

Birth & Infant Death

Mortality

Hospital & Emergency Department

Health Surveys

Cancer Registry

Injury

Help

[Hospital Charges](#)

[Hospital Length of Stay](#)

[In-hospital Deaths](#)

Advanced Selection

Select the Geographic Area

[County and Local Health District, 1992 and later](#)

[Utah's 61 Small Areas, 1992-present](#)

Select measure to query:

[Hospital Discharges](#)

Select from list:

[Count of Hospital Visits](#)

[Crude Rates](#)

[Data table and chart](#)

[Data table and Quartile Map](#)

[Data table and High-Low-Same Map](#)

[Age-Adjusted Rates](#)

[Data table and chart](#)

[Data table and Quartile Map](#)

[Data table and High-Low-Same Map](#)

[Hospital Charges](#)

[Hospital Length of Stay](#)

[In-hospital Deaths](#)

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Local intranet

IBIS map options are always under the "Advanced Selection" area.

County/LHD versus Small Area geography options use different query-builder pages.

In this example, we have drilled-down in the Small Area folder.

IBIS-PH Inpatient Hospital Discharge Query Module for Utah Counties, Local Health Districts and - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://localhost/Query?request=SHOW_SELECTION&name=hddb/HDDbSelection#selector2.2.1.3 Go

Population Estimates

Birth & Infant Death

Mortality

Hospital & Emergency Department

Health Surveys

Cancer Registry

Injury

Help

[Hospital Charges](#)

[Hospital Length of Stay](#)

[In-hospital](#)

Advanced Selection

Select the Geographic Area

[County and Health District](#)

[Utah's 61 Health Districts](#)

Select measurement

[Hospital Discharges](#)

Select from list:

[Count of Hospital Visits](#)

[Crude Rates](#)

[Data table and chart](#)

[Data table and Quartile Map](#)


Help

Help

Help

Help

Microsoft Internet Explorer

 A "Quartile" map assigns areas to four groups. Each group includes the SAME NUMBER of areas. For instance, for local health districts, each group includes three areas. Group membership and map color are based on the rank order of area rates, from the lowest rate to the highest. The first quartile is colored white and consists of areas with the lowest rates. Areas with the darkest color have the highest rates. Percentile maps such as this assign 25% of the areas to the "highest" category, even when area rates are very close. In other words, just because an area is in the "highest" category doesn't necessarily mean that the rate is significantly high.

OK

[In-hospital Deaths](#)

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Local intranet

The context-specific help buttons describe the two types of maps currently available.

IBIS-PH Inpatient Hospital Discharge Query Module for Utah's 61 Small Areas - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail

Address http://localhost/Query?request=SHOW_MODULE&name=hddb/HDDBSarea&configuration=crudeRateHospHLS#t

Population Estimates

Birth & Infant Death

Mortality

Hospital & Emergency Department

Health Surveys

Cancer Registry

Injury

Help

Step 2: Select diagnosis (default = all diagnoses, MDC)

First choose a coding scheme to use for diagnosis. Default is all

- ☐ Major Diagnosis Category(MDC)
- ☐ Diagnosis related group (DRG)
- ☐ Clinical classification system (AHCPR, CCS) -- Diagnosis
- ☐ Ambulatory care sensitive conditions
- ☐ NCHS 50 leading causes
- ☒ NCHS 113 leading causes
 - ☐ All causes
 - ☒ Select from list of causes:
 - Assault (homicide) by other and unspecified means and their sequelae
 - Asthma
 - Atherosclerosis
 - Atherosclerotic cardiovascular disease, so described
 - Bronchitis, chronic and unspecified
 - Cerebrovascular diseases
- ☐ User-Defined Diagnosis Codes - Primary Diagnosis Code
- ☐ User-Defined Diagnosis Codes - Any Diagnosis Code

Help

Help

Step 3: Select procedure (default = all procedures, CCS)

Step 4: Select age (default = all age, hospitalization age groups)

Step 5: Select gender (default = both)

Step 6: Primary payer (default = all payers)

Step 7: Discharge status (default = all discharge statuses)

Finish: Submit the defined query

Use the query-builder steps to define your query, just as you would for any other query.

Local intranet

IBIS-Q Query Submission/Confirmation - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://localhost/Query?request=SHOW_CONFIRMATION&confirmQuery=true Go

Get Query Results Modify Query

Population Estimates Birth & Infant Death Mortality Hospital & Emergency Department Health Surveys Cancer Registry Injury Help

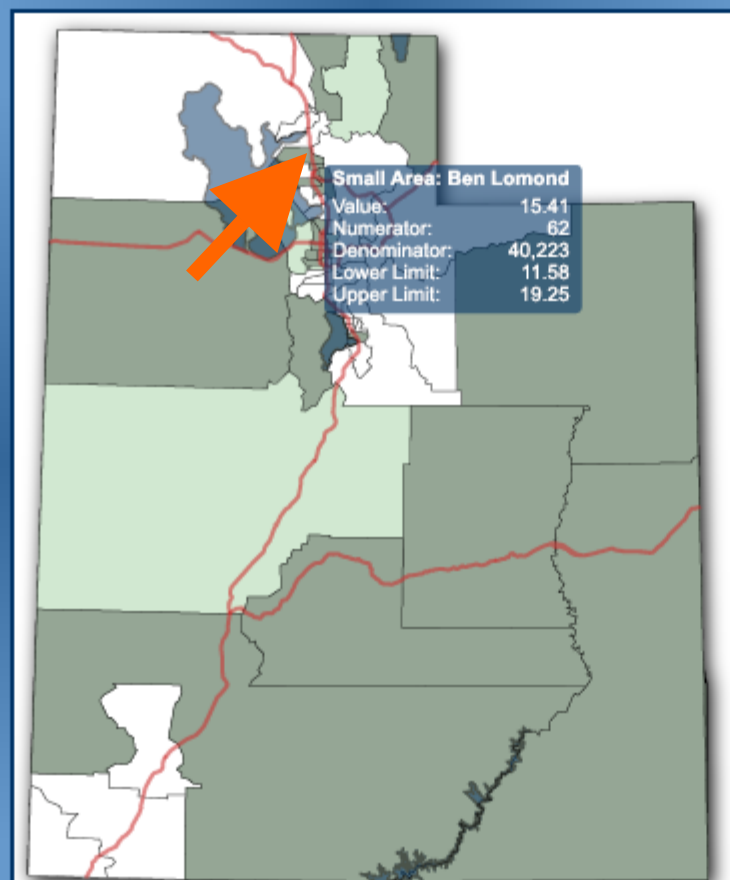
Query Item	Description / Value
Navigation Path	IBIS-PH > Custom Query > Hospital Discharge > Utah's 61 Small Areas, > Crude Rates
Module	Inpatient Hospital Discharge Query
Measure	Crude Rates High-Low-Same Map
Step 1: Select year (1992-Present) (default = most recent)	
Single Years Filter	2001, 2002, 2003
Step 2: Select diagnosis (default = all diagnoses)	
NCHS 113 Leading Causes Filter	Asthma
Step 3: Select procedure (default = all procedures, CCS)	
No Filter	Using all values
Step 4: Select age (default = all age, hospitalization age groups)	
Hospitalization Age Groups Filter	less than 1 year, 1-4 years, 5-9 years, 10-14 years, 15-17 years
Step 5: Select gender (default = both)	
No Filter	Using all values
Step 6: Primary payer (default = all payers)	
No Filter	Using all values
Step 7: Discharge status (default = all discharge statuses)	
No Filter	Using all values
Pre-defined query results display	
Data grouped by	Small Area

Done Local intranet

Query selections for this analysis include Asthma hospitalizations for children age 0-17 for a three-year period.

To get full functionality from the map feature, you will need the Adobe SVG Viewer installed on your computer. (SVG installation instructions may be accessed from the IBIS Site Map, in the footer of every IBIS web page.)

Map of Crude Rates by Small Area Crude Rates High-Low-Same Map



View Controls

Active View

Zoom



100%

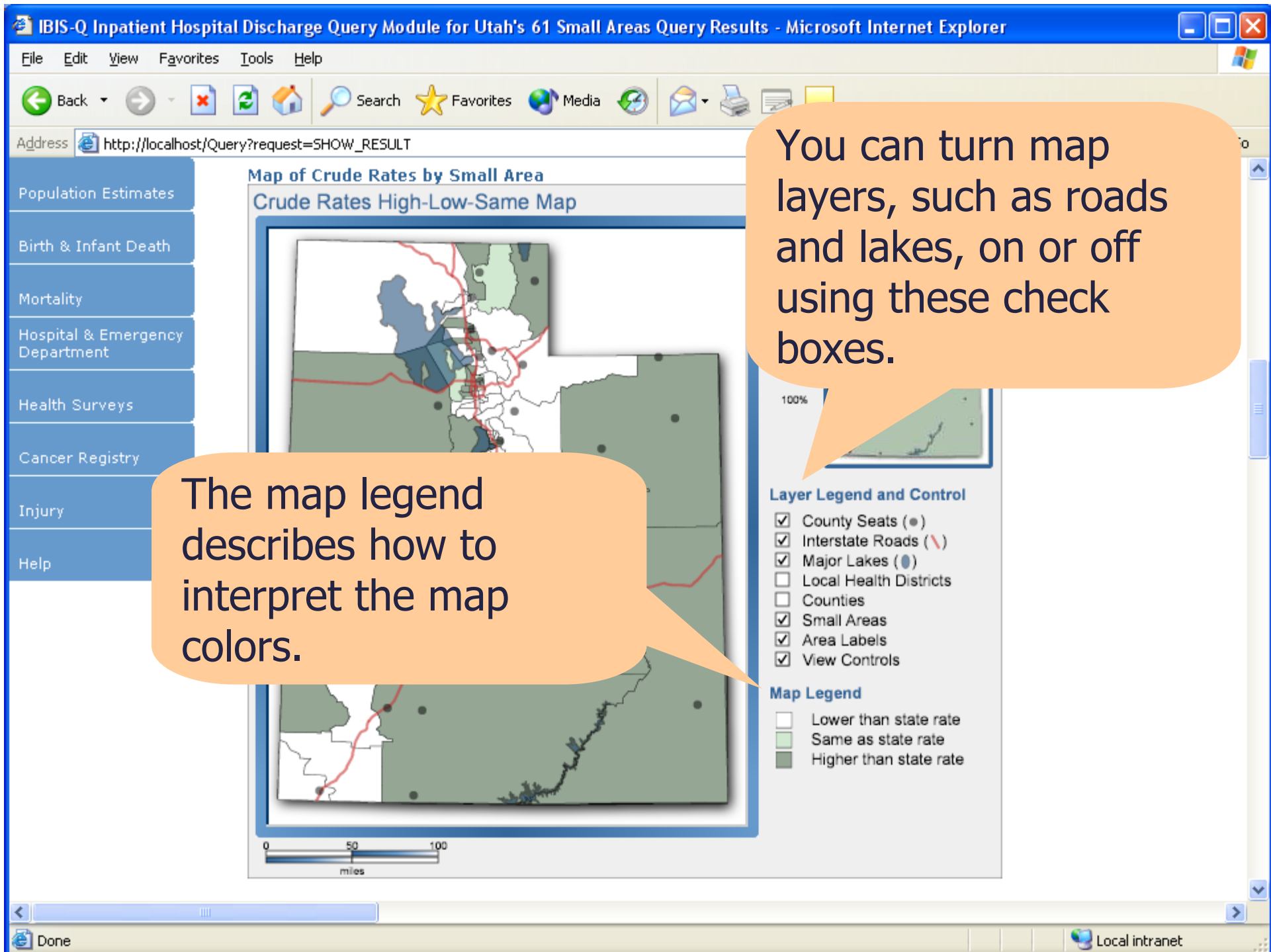


Layer Legend and Control

- ☐ County Seats (●)
- ☒ Interstate Roads (↘)
- ☒ Major Lakes (●)
- ☐ Local Health Districts
- ☐ Counties
- ☒ Small Areas
- ☒ Area Labels
- ☒ View Controls

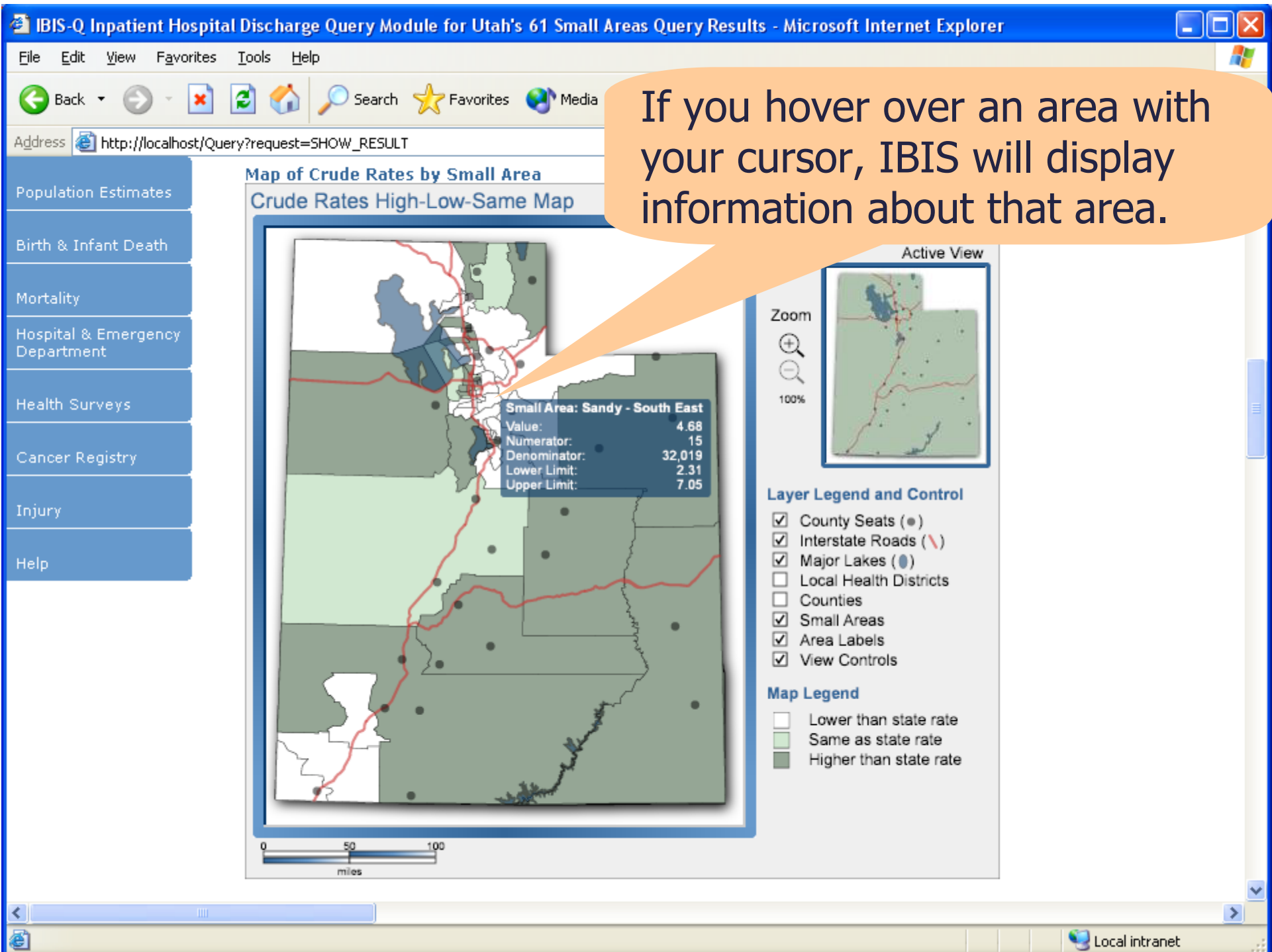
Map Legend

- ☐ Lower than state rate
- ☒ Same as state rate
- ☒ Higher than state rate



You can turn map layers, such as roads and lakes, on or off using these check boxes.

The map legend describes how to interpret the map colors.



If you hover over an area with your cursor, IBIS will display information about that area.

Population Estimates

Birth & Infant Death

Mortality

Hospital & Emergency
Department

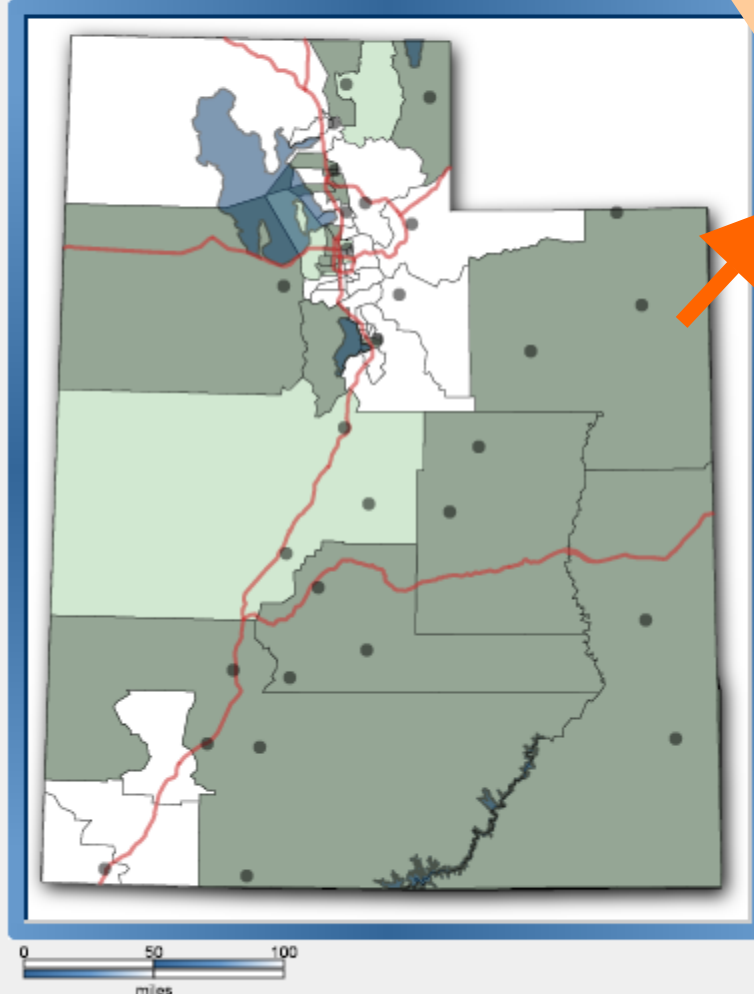
Health Surveys

Cancer Registry

Injury

Help

Map of Crude Rates by Small Area Crude Rates High-Low-Same Map



Zoom



Click to zoom in on the map.



100%



Layer Legend and Control

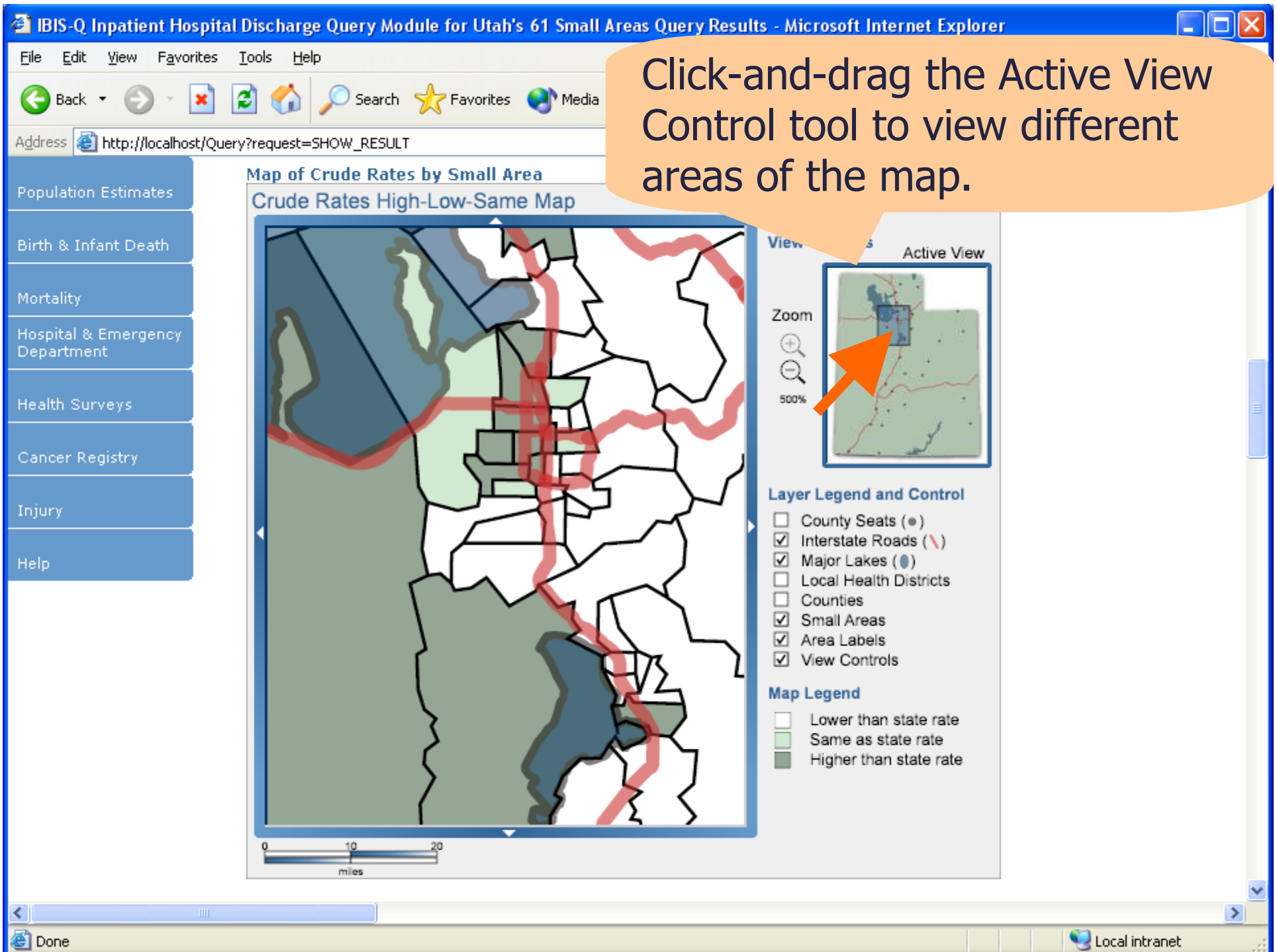
- ☒ County Seats (●)
- ☒ Interstate Roads (\)
- ☒ Major Lakes (●)
- ☐ Local Health Districts
- ☐ Counties
- ☒ Small Areas
- ☒ Area Labels
- ☒ View Controls

Map Legend

- ☐ Lower than state rate
- ☒ Same as state rate
- ☒ Higher than state rate

You can use the zoom tool to zoom-in on an area of the map.

Click-and-drag the Active View Control tool to view different areas of the map.



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Help



The IBIS map results also include the detailed data list information underneath the map.

Data List

Small Area	Number of Hospitalizations	Number in the Population	Crude Rates	95% CI LL	95% CI UL	
All	**	2,207,872	*	8.49	9.27	2
Brigham City	15	21,106	7.11	3.51	10.70	1
Other Box Elder County	14	23,685	5.91	2.82	9.01	1
Logan	44	49,558	8.88	6.26	11.50	2
Other Cache/Rich County	40	42,615	9.39	6.48	12.29	3
Ben Lomond	62	40,223	15.41	11.58	19.25	3
Morgan/East Weber County	22	33,911	6.49	3.78	9.20	1
Downtown Ogden	46	25,791	17.84	12.69	22.99	3
South Ogden	31	28,139	11.02	7.14	14.89	3
Roy/Hooper	33	40,660	8.12	5.35	10.88	1
Riverdale	26	22,450	11.58	7.13	16.03	3
Clearfield/Hill AFB	74	55,372	13.36	10.32	16.41	3
Layton	65	67,146	9.68	7.33	12.03	3
Syracuse/Kaysville	25	43,144	5.79	3.52	8.07	1
Farmington/Centerville	17	29,844	5.70	2.99	8.40	1